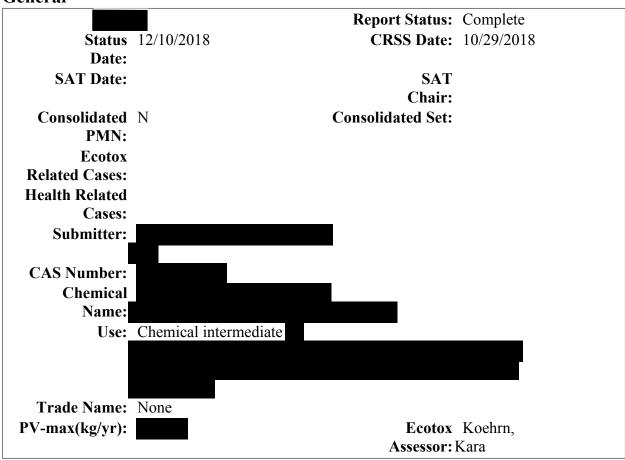
Ecotox Report for Case # P-19-0002

General



Fate Summary

Statement

```
Fate P-19-0002
 Summary FATE:
Statement:
                   with MP =
                                           °C (M)
             \log Kow = 4.35 (E)
             S = 1.28 \text{ mg/L}
             at 25 °C (E)
             VP < 1.0E-6 \text{ torr at } 25 \text{ }^{\circ}\text{C } (E)
             BP > 400 \, ^{\circ}C
             (E)
             H < 1.00E-8 (E)
             \log \text{Koc} = 7.08 (E)
             log Fish BCF = 0.50(3)
             (E)
             log Fish BAF = 2.40 (250) (E)
             POTW removal (%) = 90 \text{ via}
```

sorption and biodeg

Time for complete ultimate aerobic biodeg =

wk

Sorption to soils/sediments = strong

PBT Potential: P2B1

FATE:

Migration to ground water = negl Bioconcentration factor to be put into

E-FAST: 3

Physical Chemical

Information

Physical State - Neat:

Melting Point (est):

Point:

MP (**EPI**):

Vapor Pressure: Vapor Pressure (est): <0.000001

VP (EPI):

Water Solubility: Water Solubility (est): 0.00128

Water

Solubility (EPI):

Henry's Law::

Log Koc: Log Koc (EPI):

Log Log Kow (EFI):

Koc (EFI):

Log Kow (EFI):

Log

Kow Comment:

SAT

Concern Level

Ecotox 1

Rating (1):

Ecotox

Rating Comment

(1):

Ecotox Rating

(2):

Ecotox

Rating Comment

(2):

Ecotox Route of No releases to Exposure: water

Ecotox Comments

Exposure N
Based Review
(Eco):
Ecotox
Comments:
Exposure Based
Testing:

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
2	1		

Eco-Toxicity Comment:

Fate Ratings

Removal 9 in WWT/POTW (Overall):			D. (*)			C 4
Condition	Rating Values	1	Rating I	Description 3	4	Comment
Fish BCF:	, aides	1	<u>4</u>	3	7	
Log Fish BCF:						
WWT/POTW	2-3	Low	Moderate	Strong	V. Strong	
Sorption:	- 5	2011	1.10 401410	240115		
WWT/POTW	4	Extensive	Moderate	Low	Negligible	
Stripping:						
Biodegradation	2	Unknown	High	Moderate	Negligible	
Removal:		T T 1	Q 1 :	D 41.1		
Biodegradation Destruction:		Unknown	Complete	Partial		
Aerobic Biodeg	2	<=	Weeks	Months	> Months	
Aerobic blodeg Ult:	<i>L</i>	Days	VV CCKS	iviolitiis	/ IVIOIIIIIS	
Aerobic Biodeg		<=	Weeks	Months	> Months	
Prim:		Days				
Anaerobic	3	<=	Weeks	Months	> Months	
Biodeg Ult:		Days				
			Weeks	Months	> Months	

Removal9 in WWT/POTW	0					
(Overall):						
Condition	Rating	Rating Description Comment				Comment
	Values	1	2	3	4	
Anaerobic		<=				
Biodeg Prim:		Days				
Hydrolysis (t1/2		<=	Hours	Days	>= Months	
at pH		Minutes				
7,25C) A:						
Hydrolysis (t1/2		<=	Hours	Days	>= Months	
at pH		Minutes				
7,25C) B:						
Sorption to	2	V.	Strong	Moderate	Low	
Soils/Sediments:		Strong				
Migration to	1	Negligible	Slow	Moderate	Rapid	
Ground Water:						
Photolysis A,		Negligible	Slow	Moderate	Rapid	
Direct:			~.			
Photolysis B,		Negligible	Slow	Moderate	Rapid	
Indirect:			G1		.	
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
A, OH:		NT 1: 11 1	C1	3.6.1.4	D :1	
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
B, O3:						
Bio Comments: F		10 (250)				
	$\log BAF = 2$	2.40 (250). / spreadsheet	and the EI	OL output file		
		y spreadsneed I material are		i output me		
Fate Comments:	or the rayir	i mateman are	attached.			
rate Comments:						

Ecotoxicity Values

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments
Fish	96-h	LC50	>100	Predictions are based on QSARs for neutral organics (ECOSAR V2.0)
Daphnid	48-h	LC50	>100	"
Green Algae	96-h	EC50	>100	"

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments
Fish	-	Chronic	>10	"
		Value		"
Daphnid	-	Chronic Value	>10	"
-				"
Green Algae	-	Chronic Value	>10	"
9				n .

Ecotox Value Predictions are based on QSARs for neutral organics

Comments: (ECOSAR V2.0); MW ; Log Kow = 0.54 (P); with a MP = (M);

 \dot{S} = 142 mg/L (P); effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO3; and TOC <2.0 mg/L. We used the following smiles to account for the fact that this is a charged molecule.

Ecotox Factors

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
Acute Aquatic	100,000	5	20,000	based on acute
(ppb):				fish ECOSAR predictions
Chronic	10,000	10	1,000	based on chronic
Aquatic(ppb):				fish ECOSAR predictions

Factors	Values	Comments
SARs:	Neutral Organics	
SAR Class:	Neutral	
	organics-aromatic tetraacid	
TSCA	Neutral	
NCC Category?	Organics	

Recommended

Testing:

Ecotox Factors Environmental

Comments: Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risk because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA estimated environmental hazard of this new chemical substance using the Ecological Structure Activity Relationships (ECOSAR) Predictive Model

releationships-ecosar-predictive-model); specifically the QSAR for neutral organics. This substance falls within the TSCA New Chemicals Category neutral organics. Acute toxicity values estimated for fish, aquatic invertebrates, and algae are >100 mg/L. Chronic toxicity values estimated for fish, aquatic invertebrates, and algae are >10 mg/L. These toxicity values indicate that the new

(https://www.epa.gov/tsca-screening-tools/ecological-structure-activity-

chemical substance is expected to have low environmental hazard. Application of assessment factors of 5 and 10 to acute chronic toxicity values, respectively, results in an acute concentration of concern of 20.0 mg/L (20,000 ppb) and a chronic concentration of concern of 1.0 mg/L (1,000 ppb).

Environmental Risk: Risks to the environment were

evaluated by comparing estimated surface water concentrations with the acute and chronic concentrations of concern. Acute and chronic risks to the environment were not identified due to releases to water that did not exceed the acute nor the chronic COC.

Comments/Telephone Log

Artifact	Update/Upload
	Time